

## Product datasheet for **AP22551PU-N**

### COX4 (COX4I1) (154-166) Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/4000. <b>Immunohistochemistry on Paraffin Sections:</b> 2.5 µg/ml. <b>Western Blot:</b> 1/4000, 0.01 - 0.03 µg/ml.
Reactivity:	Human, Monkey
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from C-term of human COX4I1
Specificity:	This antibody detects COX IV (C-term). It is expected to recognize COX4I1 (GeneID:1327; MW: 19.6kDa) & COX4I2 (GeneID:84701, MW:19.6kDa).
Formulation:	Tris saline buffer, pH 7.3, 0.5% BSA, 0.02% sodium azide State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cytochrome c oxidase subunit 4I1
Database Link:	<a href="#">Entrez Gene 1327 Human P13073</a>



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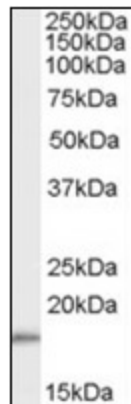
**Background:** Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities.

**Synonyms:** Cytochrome c oxidase polypeptide IV, COX IV-1, COX4I1, COX4

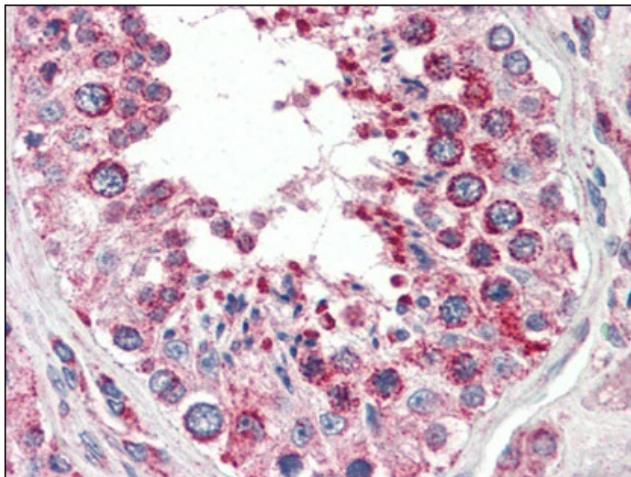
**Protein Families:** Transmembrane

**Protein Pathways:** Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

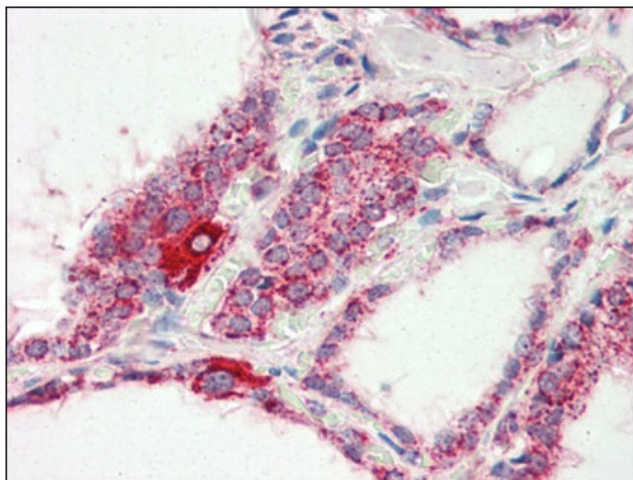
**Product images:**



Antibody (0.01 ug/ml) staining of human muscle lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Human Testis (formalin-fixed, paraffin-embedded) stained with COX4I1 antibody at 2.5 ug/ml followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Human Thyroid (formalin-fixed, paraffin-embedded) stained with COX4I1 antibody at 2.5 ug/ml followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.